

EGT307 AI Application Development - Reflection

Module Group	T2	
Project Team Name	Horizon	
Project Title	Predicting IMDB score based on selected features of a form or csv file	
<u>Project Contribution (10 marks):</u> <i>Describe the contribution of each team member to the project. (answered in table)</i> <i>What were the roles and key responsibilities assigned to each person? (answered in table)</i> <i>What specific tasks did each member complete? (answered in table)</i> <i>How was the overall workload distributed among the team? (answered below)</i> <i>In what ways did each person's skills and efforts contribute to the project's success? (answered below)</i>		
Name	Contributions and specific task completed	Given roles and key responsibilities
Yu Feiyang	<ul style="list-style-type: none">- Rewriting yaml files including inference-deployment, and ui-deployment.- Rewriting model_training.py and writing clean.py, and all the app.py, including inference_api.py.- Writing yaml files including pvc.yaml, cleaning-job, train-service, training-deployment.- Dockerfiles for ui, training, cleaning and inference.- Writing the stylesheet.css, and renewing externalstylesheet.css. Also did changing both the html pages so it has the galaxy theme.- README.MD- Slides- Reflection template	Data-preprocessing
Stephanie Neo Sze Ying	<ul style="list-style-type: none">- README.MD- Everything within UI Folder	User Interface

	<ul style="list-style-type: none"> - rewriting yaml file for ui-deployment.yaml - Slides - Rewriting inference_api.py - Dockerfile & requirements.txt for inference_api folder - Reflection template 	
Edric Sng Hong Kai	<ul style="list-style-type: none"> - README.MD - Initial inference_api.py file(line 1-50) - Slides 	Inference
Azkaa Saif Bin Saifulzaman	<ul style="list-style-type: none"> - Initial model_training.py (before it got overwritten, feiyang did not keep the old version) - Slides 	Model Training

How was the overall workload distributed among the team?

The overall workload was distributed evenly at the start, with each member handling one component out of the 4 provided. (e.g.: Feiyang oversaw data-preprocessing, Stephanie oversaw User Interface, while Edric and Azkaa were supposed to handle Inference and Model Training respectively).

Each member was delegated to finish their task within a specific but manageable timeframe of a week or so. Unfortunately, some members were uncooperative and refused to respond to our messages or meet our deadlines.

For instance, after a week of waiting, Azkaa had only submitted his python script for model training (model_training.py), and when we asked about the whereabouts of his .yaml file and docker files, he left us on read for the remainder of the project's timeline. This forced Feiyang to take over his role & complete the unfinished parts, which meant that Azkaa had not fulfilled his kubernetes component, which was the core of the project.

Edric was another uncooperative member. After Azkaa submitted his python script (model_training.py), we had to wait an additional week for before Edric even started on the inference script (inference_api.py). At the end of the week, he submitted a python script that was illogical and unusable. This meant that Stephanie had to rewrite it in its entirety. Eventually, Feiyang had to step in to help as well. Like Azkaa, Edric did not complete any further coding, leaving the kubernetes component blank, which was the core of the project.

The project's distribution eventually became extremely skewed, with Feiyang having to complete the missing files, with the occasional assistance from Stephanie.

In what ways did each person's skills and efforts contribute to the project's success?

Stephanie has helped in managing the group while group leader was not there, and she gave advice to other team members what to improve on their pre-existed work. She also took initiatives to debug the code, writing her own files, as well as slides and README.md. She participated in our online meetings regularly to discuss work with us. She has also done majority of slides.

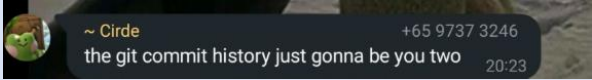
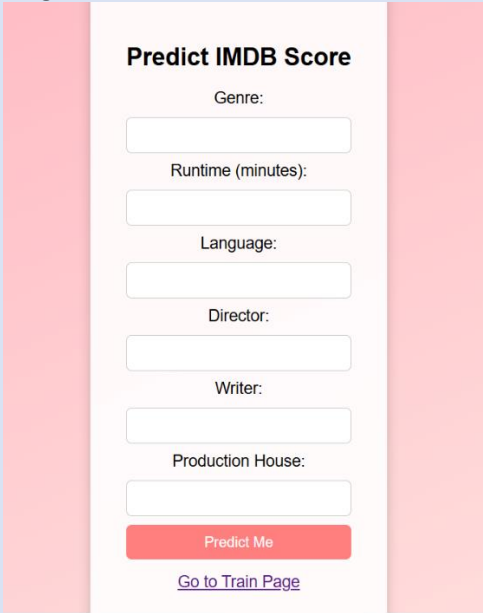
Feiyang has helped in delegating the work to all teammates, and finding the datasets, finalizing the project. She had also helped to align the ports of different pods within our kubernetes cluster when they was a challenge. She also took initiatives in notifying the group about their task and doing her own container while helping others.

Edric has tried to help us with inference_api.py initially, but the code he gave was consistently incorrect.

Azkaa was not there almost the whole time. The skills he contributed could be the training of the model and he put some screenshots on model_training on the slides.

Peer Review

Team Member Name	Contribution Ranking for Project Development (1 = highest contribution , 3/4=lowest contribution)	Contribution Ranking for Presentation (1 = highest contribution , 3/4=lowest contribution)	Justification/Comments for the contribution rating & ranking given
<Yu Feiyang #1>	1	1	Feiyang has connected all the pods together and aligning the form input with the backend, she has also completed the files that others did not do, including many yaml files, dockerfiles and app.py. She tested every container on her pc and linked them together.
<Stephanie Neo Sze Ying #2>	2	2	Stephanie has contributed majority of the slides, and she also cleaned the dataset and designed the ui with us. She does not slack off when we ask her to do her work, and she is proactively contributing to the group, like she also did try to do Edric's Inference yaml file. She is an active participant of the project.
<Edric Sng Hong Kai #3>	3	4	<p>Code submitted for initial inference_api.py (line 1-50) was of poor quality. Left Feiyang and Stephanie with no choice but to rewrite everything.</p> <p>He got upset when notified of the change, however when he was asked to explain the significance of his code, he could not provide a justification as to why it should stay.</p> <p>It was clear that he could not understand how his code even worked, thus the decision was made to rewrite it. Stephanie left his block of code commented out in inference_api.py (line 1-50), for the lecturer's reference.</p> <p>However, after numerous explanations as to why his code was deleted, he accused Feiyang and Stephanie of deleting it because he was slow, and made them look like the unreasonable ones.</p> <p>He did not accept responsibility that his code was full of errors, and pushed the blame to Stephanie and Feiyang, which showcased extreme immaturity on his part, leading to this poor ranking.</p> <p>In all honesty, the code was overwritten not because of the speed, but rather the quality received.</p> <p>After the above incident, Edric has made attempts to make git commits. However, Feiyang & Stephanie has collated proof that this was done in order to ensure</p>

		<p>version control marks. Please refer to the following screenshots below:</p> <p><u>Case study 1:</u></p> <p>He sent this message. In this scenario, “you two” refers to Stephanie and Feiyang.</p>  <p>He was aware that the version control marks would be individual from that day onwards. From then on, he began to commit inane things into our repository, for the sake of the version control marks. Please note that before he sent this message, he had made no attempts to even contribute anything aside from inference_api.py (line 1-50).</p> <p><u>Case Study 2: User Interface incident</u></p> <p>Feiyang and Stephanie had finalized the User Interface styling. The user interface was done by both girls. After Edric and Azkaa failed to submit the appropriate files, both boys were asked to do slides instead.</p> <p>Edric was not told at any point in time to change the User Interface, yet he didt. He did not alert Feiyang and Stephanie that he would be changing it.</p> <p>The original user interface was presented in this manner so that all the input boxes aligned. It is not anything special, but it was the finalized version. It is stored in predict.html.</p> <p>Original user interface:</p> 
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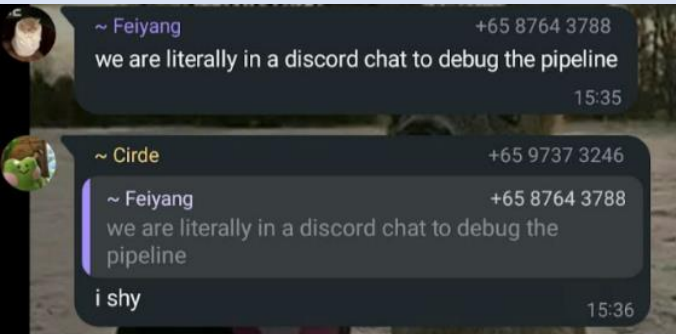
Feiyang overwrote most of our git commits by accident. But yeah this was captured from Edric's most recent endeavour.

```
imdb-pipeline/ui/static/externalitysheet.css
10 background: linear-gradient(to bottom right, #ffdc1, #ffed1); /* two
11 pretty colors */
12
13 - .container {
14   background-color: rgba(255, 255, 255, 0.9);
15   padding: 40px;
16   border-radius: 12px;
17 }
18
19 + .contain {
20   background-color: rgba(255, 255, 255, 0.9);
21   padding: 40px;
22   border-radius: 12px;
23 }

imdb-pipeline/ui/templates/predict.html
6 <link rel="stylesheet" href="{{ url_for('static',
7   filename='externalitysheet.css') }}">
8 <body>
9 - <div class="container">
10   <h2>Predict IMDb Score</h2>
11   <form action="/predict" method="post">
12     Genre: <input type="text" name="Genre" required>
13
14   </form>
15 </div>
16
17 + <div class="contain">
18   <h2>Predict IMDb Score</h2>
19   <form action="/predict" method="post">
20     Genre: <input type="text" name="Genre" required>
21
22   </form>
23 </div>
```

Case study 4: Unresponsive and doesn’t participate in group discussions + poor code quality.

Feiyang told him that she was in a meeting with Stephanie, he declined to join for this very reason. He said that he would contribute without joining the discord meeting. Yet he did not.



This messaged happened after he gave us his inference_api.py (line 1-50), but before he found out that version control marks were individual.

Feiyang and stephanie were in a meeting trying to debug his code. The inference_api.py code is supposed to reference some components of model_training.py. It also required the model itself.

In the version of Edric’s inference_api.py (line1-50), he had reference made ZERO references to azkaa's model training file. The code that Edric provided us with was extremely lacking and showed that edric had no understanding of how to complete his component.

This was why Stephanie and Feiyang had no choice but to overwrite it.

			<p>Case study 5: Poor presentation skills</p> <p>Edric did not prepare for his presentation. Even with a phone in hand, his presentation did not make sense, it showed lack of preparation, understanding, and care. He presented with a flair that made it obvious that he did not care for it. He was talking extremely carelessly throughout.</p> <p>It was even worse when he blamed his groupmates during a presentation, which was extremely unprofessional. If he wanted to express his thoughts, it should've been done after the presentation, not during. This enough constitutes a reason to give him the lowest presentation ranking skills. He has none.</p> <p>Feiyang and Stephanie are both extremely disappointed by Edric's poor work ethic and character. This entire section should be enough to justify the poor ranking of Edric.</p>
<Azkaa #4>	4	3	<p>Disappeared throughout the project after dropping one model_training.py. He did not complete his components for container, other groupmates had to do his missing files.</p> <p>When we asked him to do work, he always leave us on read, and do not talk in the group ever since we assigned him work.</p> <p>We expected him to give a strong start for our presentation, but he started reading off his phone, and have little understanding of the code, while he was walking through Feiyang's yaml file.</p>

* Ranking is from 1-4 for a 4 member team, and from 1-3 for a 3 member team. "Ranking=1" means the person contributed the most to the project. No two persons can share the same ranking.

This table is mainly used for high-lighting & penalizing free-riders in the project.